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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

WON, MICHAEL YOUNG

ART UNIT	PAPER NUMBER
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2155

DATE MAILED: 11/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/759,406

Applicant(s)

LOWERY ET AL.

Examiner

Michael Y. Won

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 September 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30,95-101 and 105 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30,95-101 and 105 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This office action is in response to the amendment filed September 7, 2005.
2. Claims 1-30, 95-101, and 105 have been examined and are pending with this action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 16, and 101 are rejected under 35 U.S.C. 102(b) as being anticipated by Boyle (US 5,864,854 A).

As per ***claims 1, 16, and 101***, Boyle teaches of a method and a system for dynamic distributed data caching comprising logic and means for: providing a cache community on a first side of a point of presence, the cache community comprising at least one peer, each peer having associated first content portion (see col.3, lines 58-60: "entry") indicating content obtained from a second side of the point of presence to be cached by the respective peer (see abstract; Fig.5, steps 102→106→120→122; and col.1, line 64-col.2, line 9); allowing a client to join the cache community (see col.2, lines

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5-9); updating peer list associated with the cache community to include the client (see col.3, lines 21-31, 35-38, and 55-60 and col.6, lines 55-58), the peer list indicating the peers in the cache community (see Fig.3 and col.4, lines 38-40); and associating a respective second content portion with each peer based on the addition of the client (see col.4, lines 9-17; col.6, lines 55-58; and col.8, lines 22-26 & 59-62), the second content portion being distinct from the first content portion (inherent: see col.3, line 60- col.4, line 17).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2-15 and 17-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyle (US 5,864,854 A) in view of Maggenti et al. (US 6,477,150 B1).

As per ***claims 2 and 17***, Boyle does not explicitly teach of further comprising: receiving a join request from the client; and determining whether allow the client join the cache community. Maggenti teaches of receiving a join request from the client (see col.10, lines 24-29; col.18, lines 36-37; and col.26, lines 65-66); and determining whether to allow the client join the cache community (see col.5, lines 34-37; col.12, lines 3-7; and col.31, lines 49-51).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the teachings of Maggenti within the system of Boyle by implementing receiving a join request from the client and determining whether to allow the client join the cache community within the method and a system for dynamic distributed data caching because respectively, Boyle teaches that the “performance of each client typically improves as the group grows to include more clients, since data items can be obtained more quickly from another client in the group than from a server” (see col.2, lines 5-9) and teaches that the number of members of groups is “preferably selected such that the expected peak number of requests for any data item is not significantly delay by queuing (see col.5, lines 58-61). Therefore Boyle welcomes additional members, but not at the expense of losing performance.

As per **claims 3 and 18**, Maggenti further teaches wherein the join request comprises a CRMSG_REQUESTTOJOIN data message (implicit: see col.10, lines 24-29; col.18, lines 36-37; and col.26, lines 65-66).

As per **claims 4 and 19**, Boyle does not explicitly teach wherein allowing the client to join the cache community comprises: generating an allow message; associating the peer with the allow message; and communicating the allow message to the client. Maggenti teaches of generating an allow message (see col.12, lines 3-7 and col.31, lines 49-51); associating the peer with the allow message (inherent); and communicating the allow message to the client (see col.12, lines 3-7 and col.31, lines 49-51).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the teachings of Maggenti within the system of Boyle by implementing generating an allow message; associating the peer with the allow message; and communicating the allow message to the client within the method and a system for dynamic distributed data caching because Boyle teaches that the number of members of groups is "preferably selected such that the expected peak number of requests for any data item is not significantly delay by queuing (see col.5, lines 58-61) and by generating, associating, and communicating and acknowledgment is relayed back so that the client device can be notified.

As per **claims 5 and 20**, Maggenti further teaches wherein allowing the client to join the cache community comprises: generating an allow message comprising the peer list updated to include the clients (see col.17, lines 47-52 and col.20, lines 8-14); communicating the allow message to the client (see claim 4 and 19 rejection above: redundant limitation); and communicating the allow message to at least one member associated with the cache community (see col.12, lines 16-28).

As per **claims 6 and 21**, Maggenti further teaches wherein the allow message comprises a CRMSG_UPDATEPEERLIST data message (implicit: see col.12, lines 16-20).

As per **claims 7 and 22**, Maggenti further teaches wherein peer list associated with the allow message comprises updated peer which includes the client (see col.12, lines 16-20).

As per **claims 8 and 23**, Boyle further teaches wherein the point of presence is an ISP (implicit: see Fig.1 and col.2, lines 48-58).

As per **claims 9 and 24**, Boyle further teaches wherein a one of the peers comprises a member (see col.3, lines 58-61).

As per **claims 10 and 25**, Boyle does not explicitly teach wherein one of the peers comprises a master. Maggenti teaches of a master (see col.3, lines 58-65: "communication manager (CM)").

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the teachings of Maggenti within the system of Boyle by implementing a master within the method and a system for dynamic distributed data caching because such an implementation provides centralized control for administering the functionalities.

As per **claims 11 and 26**, Boyle further teaches wherein associating a respective second content portion comprises: allocating respective second content portions peers in the peer list (see Fig.2 and Fig.3); and updating an allocation table indicate the second content portion associated with the peers (see col.8, lines 59-62).

As per **claims 12 and 27**, Boyle further teaches wherein the second content portions are distinct (implicit: see col.3, line 60-col.4, line 17: all the field may be distinct).

As per **claims 13 and 28**, Boyle further teaches wherein at least two of the second content portions overlap (implicit: see col.3, line 60-col.4, line 17: some of the fields may be the same).

As per **claims 14 and 29**, Boyle further teaches wherein the first and second content portions respectively comprise a plurality Internet Protocol domain names (see col.3, lines 60-48).

As per **claims 15 and 30**, Boyle teaches of further comprising removing the association between the first content portions and the peers (inherent).

5. Claims 95-100 and 105 are rejected under 35 U.S.C. 103(a) as being unpatentable over Maggenti et al. (US 6,477,150 B1) in view of Boyle (US 5,864,854 A).

As per **claims 95, 98 and 105**, Maggenti teaches a method and a system comprising logic and means for: communicating a community request from a module to an administration module (see col.3, lines 55-63); receiving a community list from the administration module in response the community request, the community list including a list of communities (see col.5, lines 38-49 and col.12, lines 16-20); selecting one of the communities to attempt to join (see col.7, lines 43-46); generating a join request to attempt to join the selected communities (see col.10, lines 24-29; col.18, lines 36-37; and col.26, lines 65-66); receiving an allow message associated with the one of the communities (see col.6, lines 64-66; col.12, lines 3-7; col.31, lines 49-51; and col.42, lines 48-50); receiving a peer list associated with the one the communities (see col.17, lines 47-52 and col.20, lines 8-14); receiving a content request (see col.3, lines 55-63; col.4, lines 9-12; and col.12, lines 16-20); and storing content associated with the content request (see col.11, lines 20-23).

Maggenti does not explicitly teach that the method and system is employed for dynamic distributed data caching and wherein the module is a dynamic cache module. Boyle teaches of dynamic distributed data caching and wherein the module is a dynamic cache module (see col.1, line 64 to col.2, line 2).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the teachings of Boyle within the system of Maggenti by implementing dynamic distributed data caching and a dynamic cache module because Boyle teaches that such implementation “minimizes requests for data items outside each group and minimizes the service load on servers having popular data items” (see col.2, lines 14-17).

As per **claims 96 and 99**, Maggenti further teaches wherein the community request comprises a CRMSG_WAKEUP data message (implicit: see col.13, lines 63-65).

As per **claims 97 and 100**, Maggenti further teaches wherein the join request comprises a CRMSG_REQUESTTOJOIN data message (implicit: see col.10, lines 24-29; col.18, lines 36-37; and col.26, lines 65-66).

Response to Arguments

6. Applicant's arguments filed September 7, 2005 have been fully considered but they are not persuasive. See reason below.

A. In response to the argument regarding claims 1, 16, and 101, specifically that Boyle fails to teach, suggest, or disclose, “updating a peer list associated with the cache community to include the client”, the applicant(s) based the argument on the basis that because Boyle teaches “the group cache look-up table includes an entry corresponding to each data item cached by any member of the group” that the cache look-up table is not a peer list. Boyle further teaches that this entry corresponding to each data item includes “a client identifier field” (see col.3, lines 58-60). In column 6 lines 55-58, Boyle still further teach of updating this “client identifier field... to indicate an additional client caching the data”. Therefore, Boyle clearly teaches the limitation of “updating a peer list associated with the cache community to include the client”.

B. In response to the argument regarding claims 1, 16, and 101, specifically that Boyle fails to teach, suggest, or disclose, “associating a respective second content portion with each peer based on the addition of the client”, Boyle teaches of updating the client identifier field (see col.6, lines 55-58) and updating based on adding of a client (see col.8, lines 59-62). Therefore, since Boyle teaches of associating content portion with each peer (see col.4, lines 9-11 and col.8, lines 22-26), Boyle in combination will all the reference locations explicitly teach “associating a respective second content portion with each peer based on the addition of the client”.

C. For the same reasons above, claims 2-15 and 17-30 remain rejected.

D. In response to applicant's argument regarding the combination of Boyle into Maggenti, that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the

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teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so **found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art**. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992).

In this case, Boyle teaches the use of caches with a group cache look-up table because this “minimizes requests for data items outside each group and minimizes the service load on servers having popular data items” (see Boyle: col.2, lines 14-17) and Maggenti teaches that each CD (communication device) is “capable of generating data packets suitable for transmission over a data network such as the Internet” (see Maggenti: col.3, lines 55-58) and further teaches that each CD has a “group-list” (see col.12, lines 16-17). Therefore, since Maggenti teaches of a cache incorporated by the CD (see col.31, line 65), it would have been obvious to incorporate the teachings of Boyle within the system of Maggenti to incorporate the benefits claimed.

E. In response to the argument regarding claims 95, 98, and 105, specifically that Maggenti-Boyle fails to teach, suggest, or disclose, “receiving a community list from the administration module in response the community request”, clearly this limitation is taught by Maggenti. The applicant(s) seems to equate that the assertion of the communication manager “never transmits this net database” to the communication devices “fail to receive a peer list”. There is no support for the assertion of the communication manager “never transmits this net database”. In column 5 lines 41-46, Maggenti teach that the communication manager “manages the real-time and

administrative operation of nets” including “distribution of net membership and registration lists”. Maggenti further teaches in column 12 lines 17-20 that the CM provides the CD with updates of its group-list. For the reasons above, this limitation is explicitly taught.

F. In response to the argument regarding claims 95, 98, and 105, specifically that Maggenti-Boyle fails to teach, suggest, or disclose, “receiving a peer list associated with the one the communities”, the applicant(s) again argue, “Maggenti never transmits this net database to the communication device”. For the reasons above, Maggenti explicitly teaches this element.

G. In response to the argument regarding claims 95, 98, and 105, specifically that Maggenti-Boyle fails to teach, suggest, or disclose, “receiving a content request”, the cited reference locations explicitly teach this limitation. Maggenti teaches in column 3 lines 55-63 that the CD is suitable for generating data packets suitable for transmission over the Internet and that the CM processes data packets and distributes between CDs. Clearly, the request and response of data packets is implicit. Maggenti teaches in column 4 lines 9-12, the substance of the data packets. Furthermore, Maggenti teaches of requesting for update content from the CM (see col.12, lines 16-20).

H. In response to the argument regarding claims 95, 98, and 105, specifically that Maggenti-Boyle fails to teach, suggest, or disclose, “storing content associated with the content request”, clearly Maggenti teaches of storing the requested content of “group-list” (see col.11, lines 20-23).

I. For the same reasons above, claims 96, 97, 99, and 100 remain rejected.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

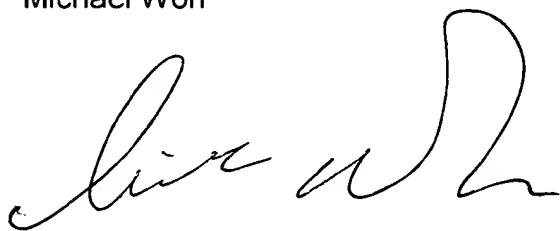
A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Y. Won whose telephone number is 571-272-3993. The examiner can normally be reached on M-Th: 7AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Won



November 15, 2005



SALEH NAJJAR
SUPERVISORY PATENT EXAMINER